

NOT ADDRESSED

COMPLEXITY

SITE SPECIFICITY

DEPOSITIONAL GEOLOGIC CONTROL

EASTON, CA

1 sq mi

1995-1997 sampled NO₃, DBCP

2012 sampled NO₃, DBCP, TCP, U

Sources of NO₃ – ag, sewage (septic, treatment plant), soil

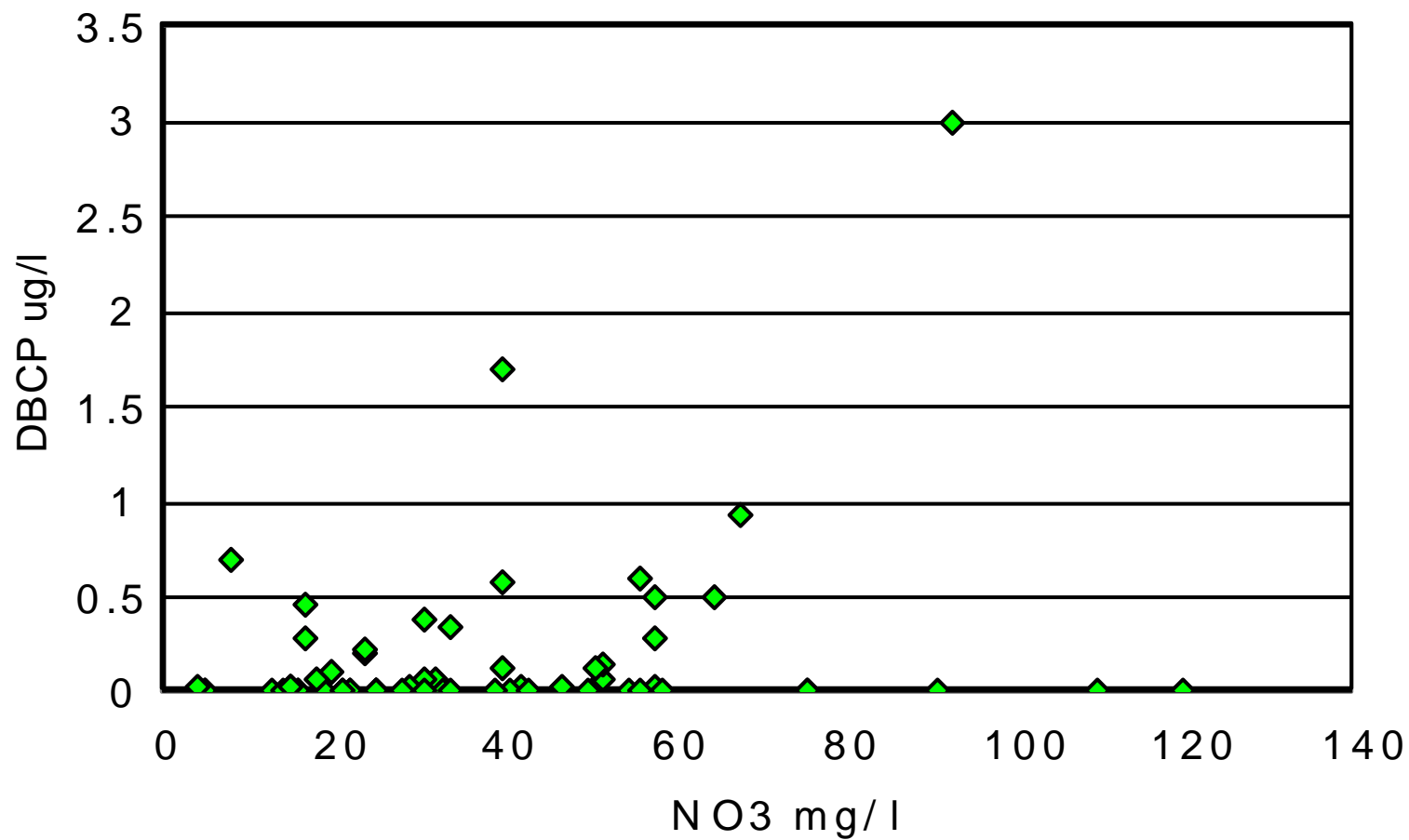
Sources of DBCP – ag

Sources of TCP – industrial, ± ag

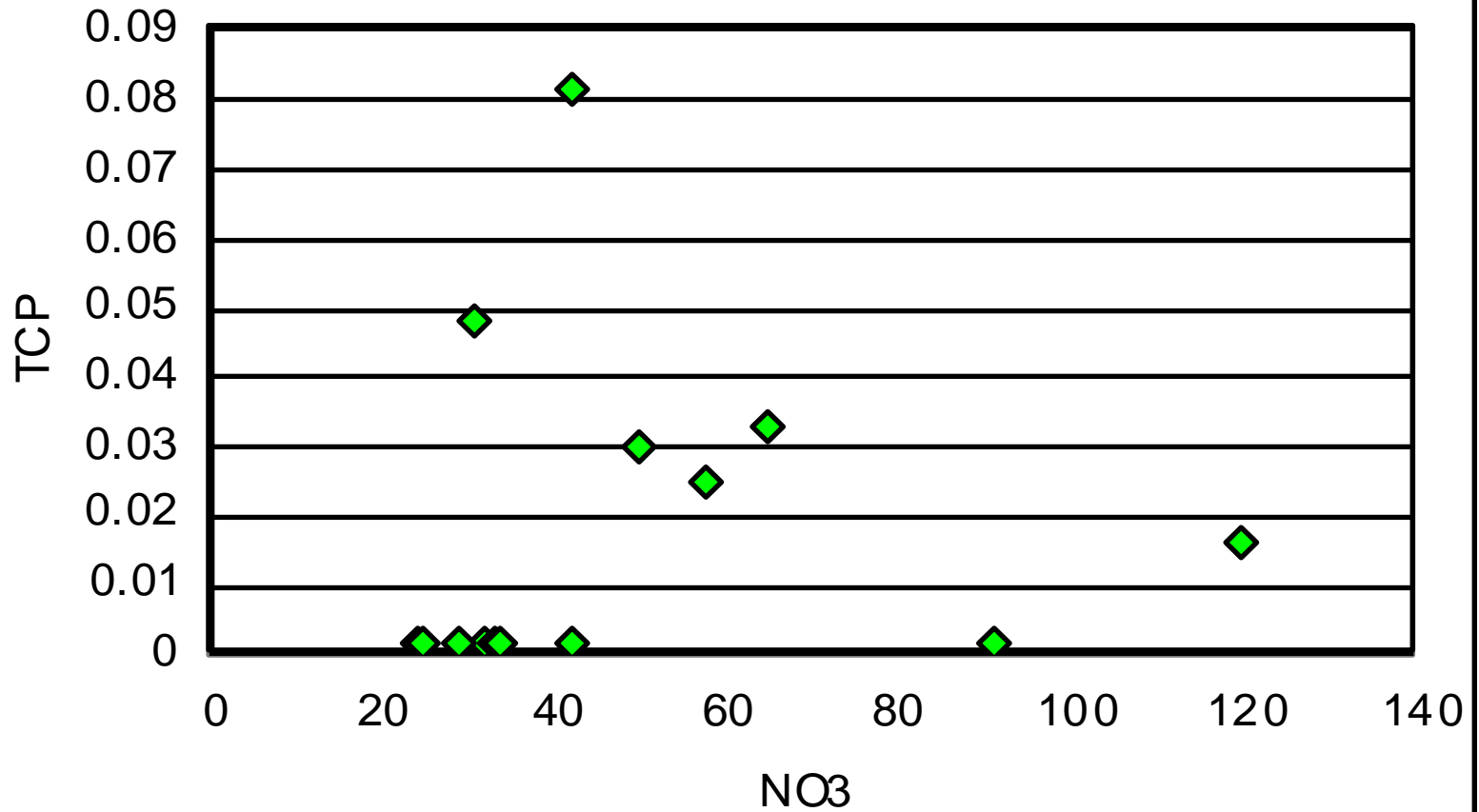
Sources of U – natural

Any correlations?

EASTON, CA
NO₃ vs DBCP

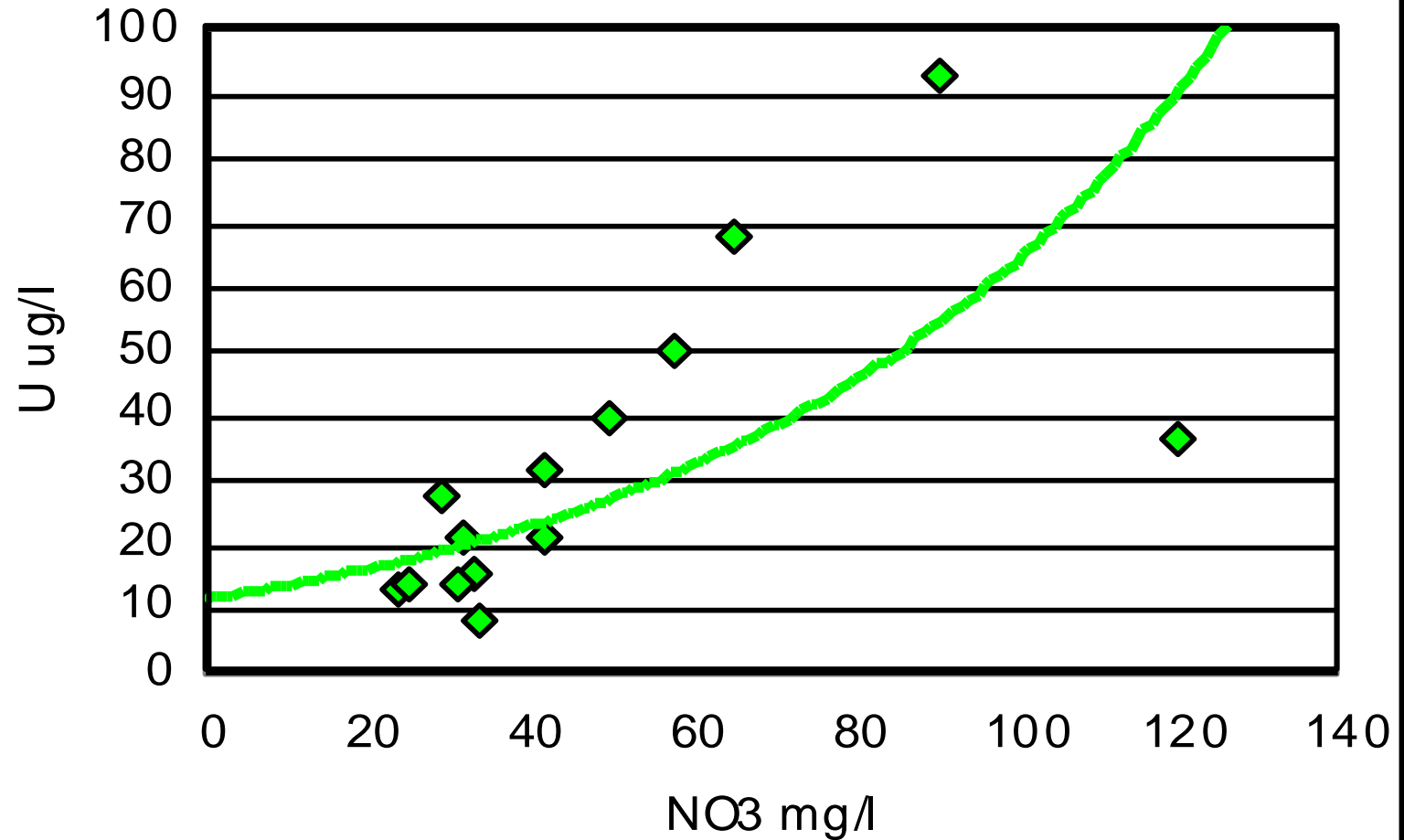


EASTON, CA
NO₃ v s TCP

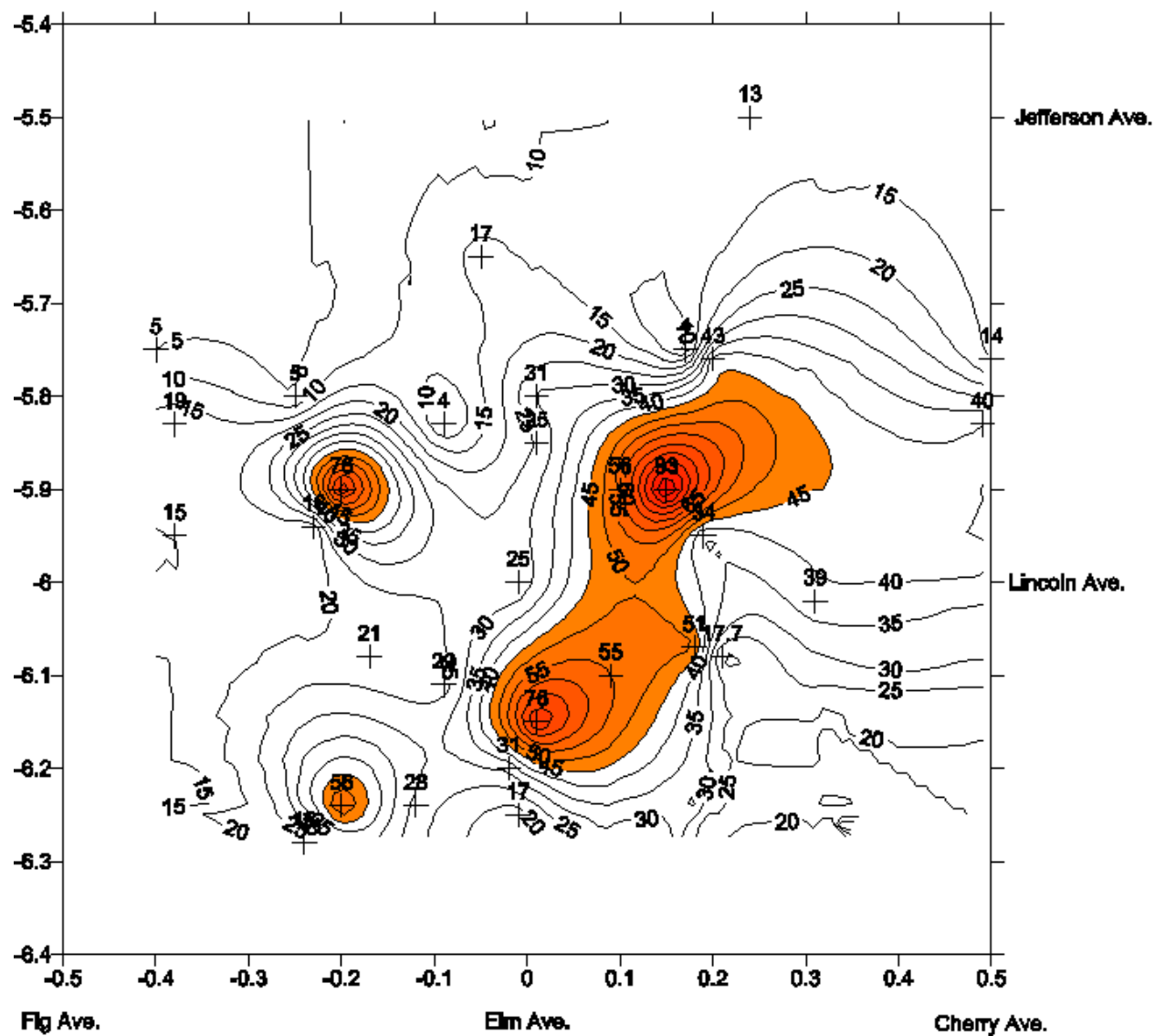


EASTON, CA

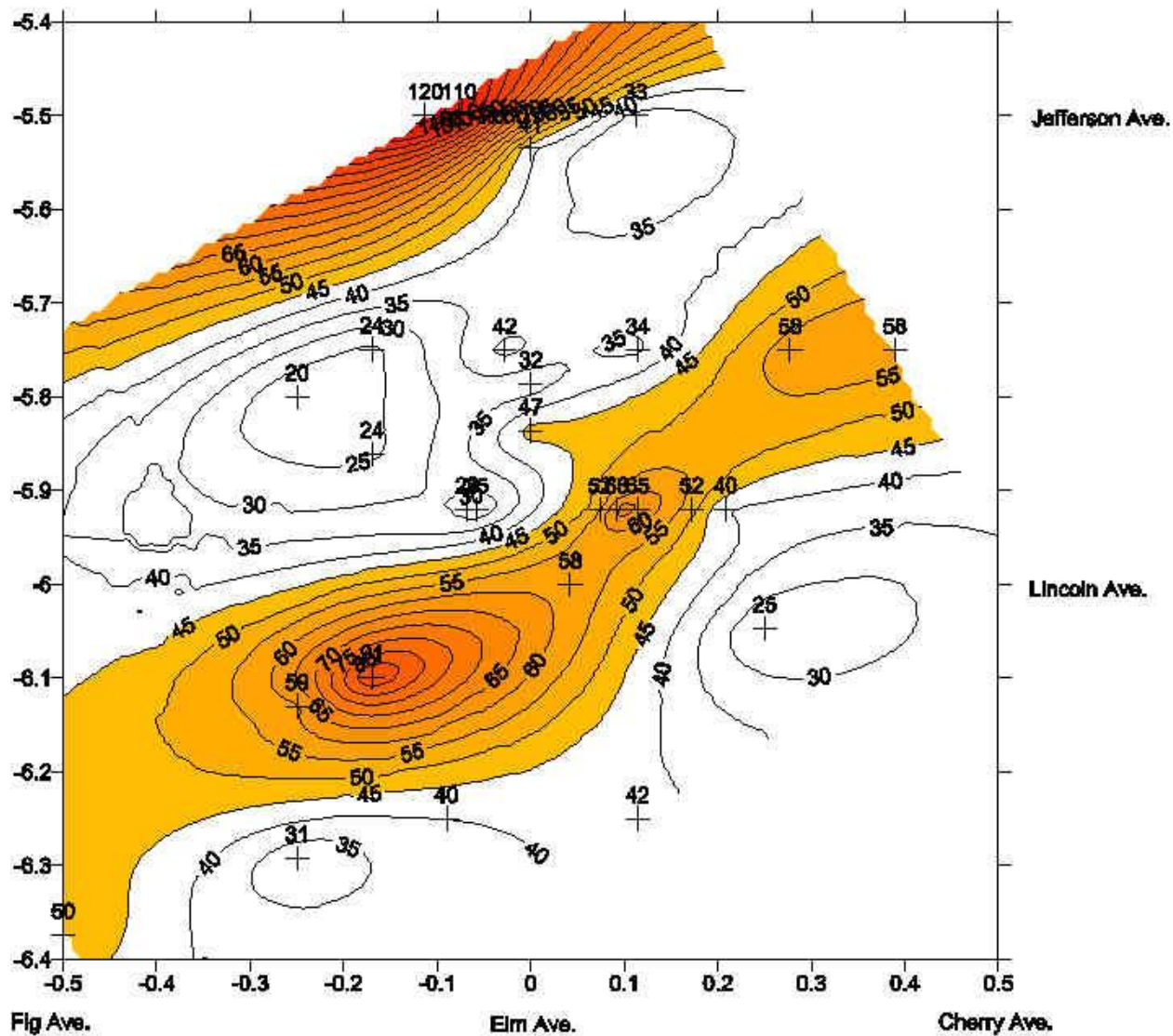
NO₃ vs Uranium



EASTON CALIFORNIA
Nitrate mg/l
1997



EASTON CALIFORNIA
Nitrate mg/l
2012



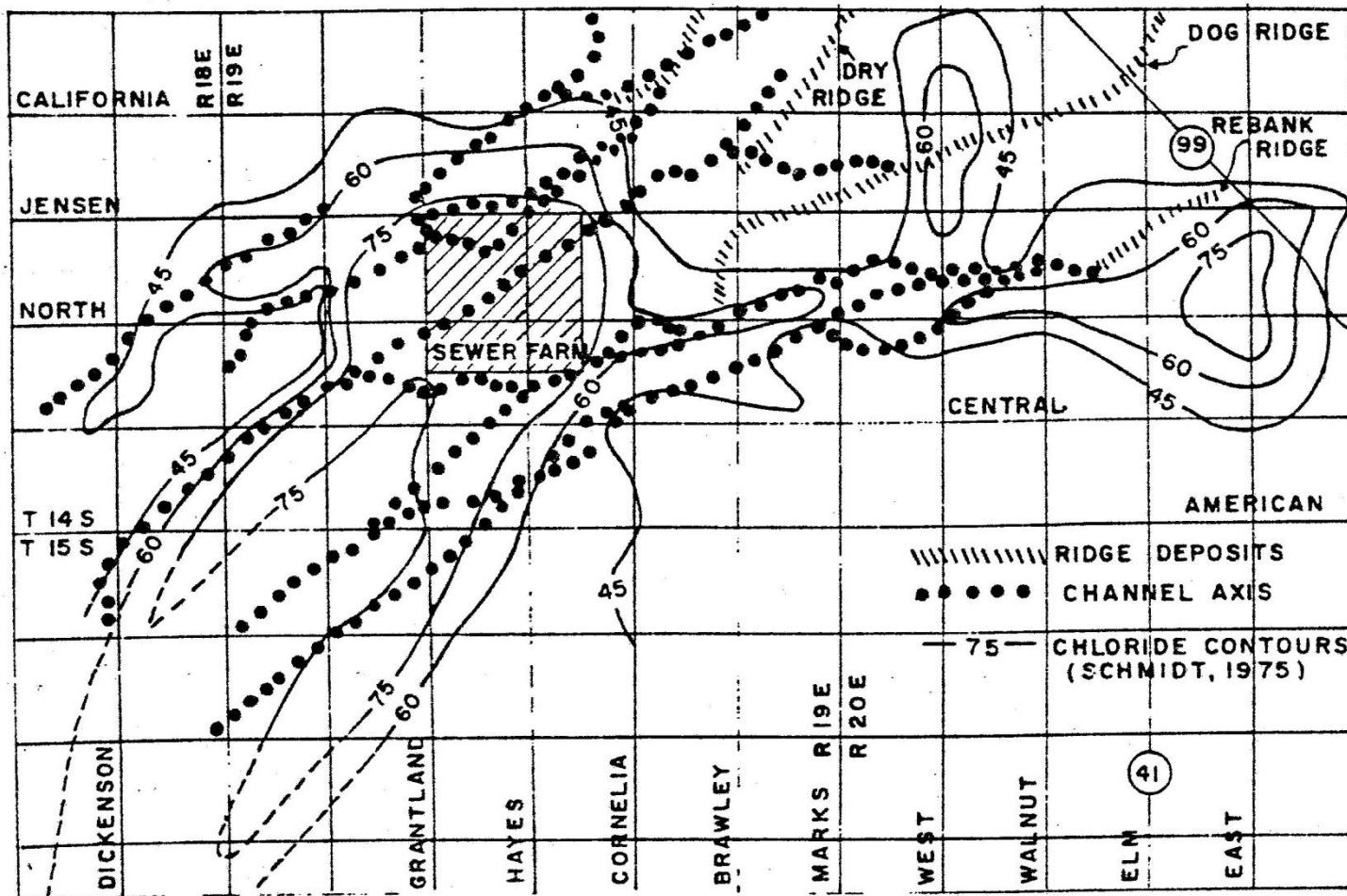
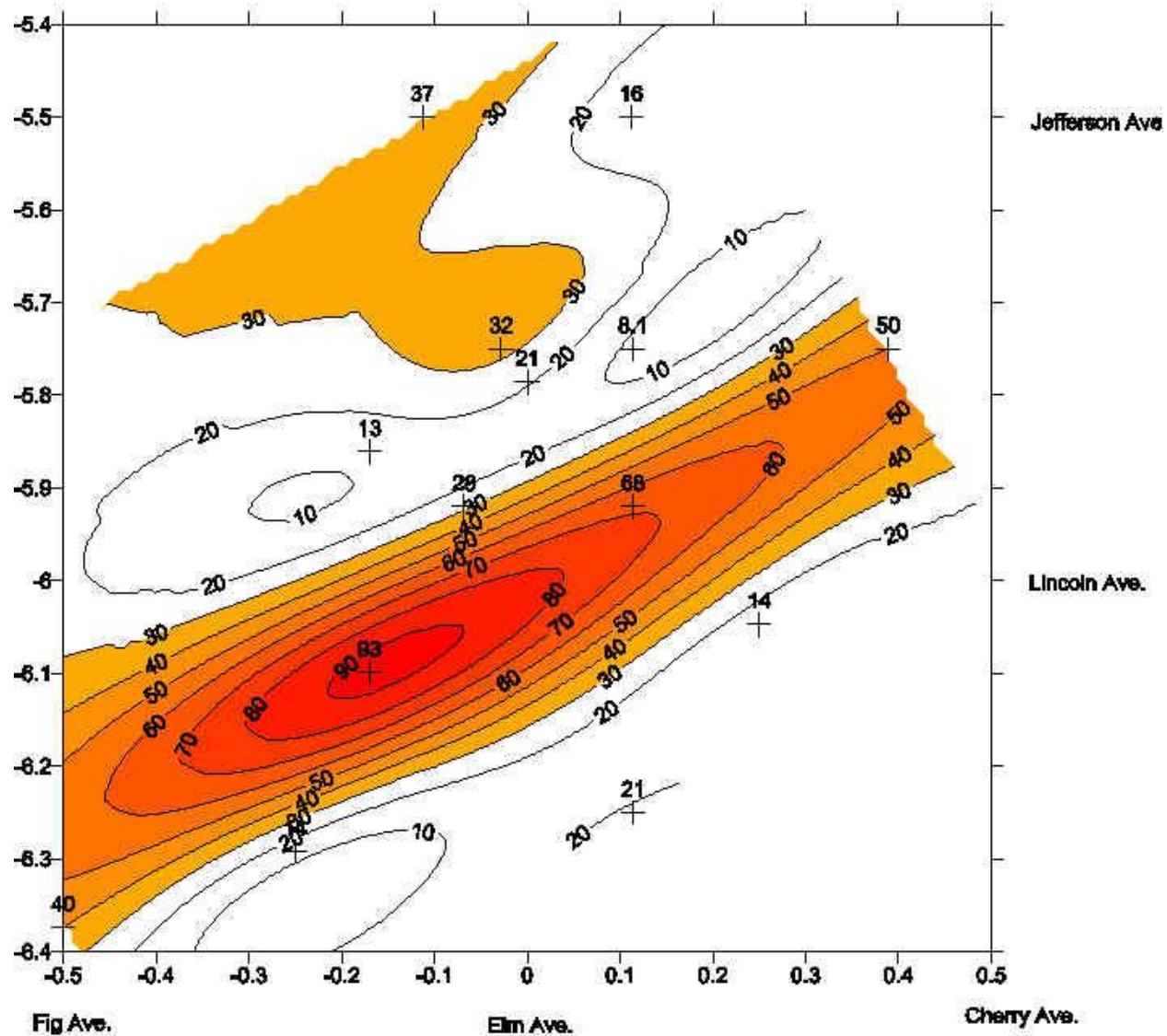
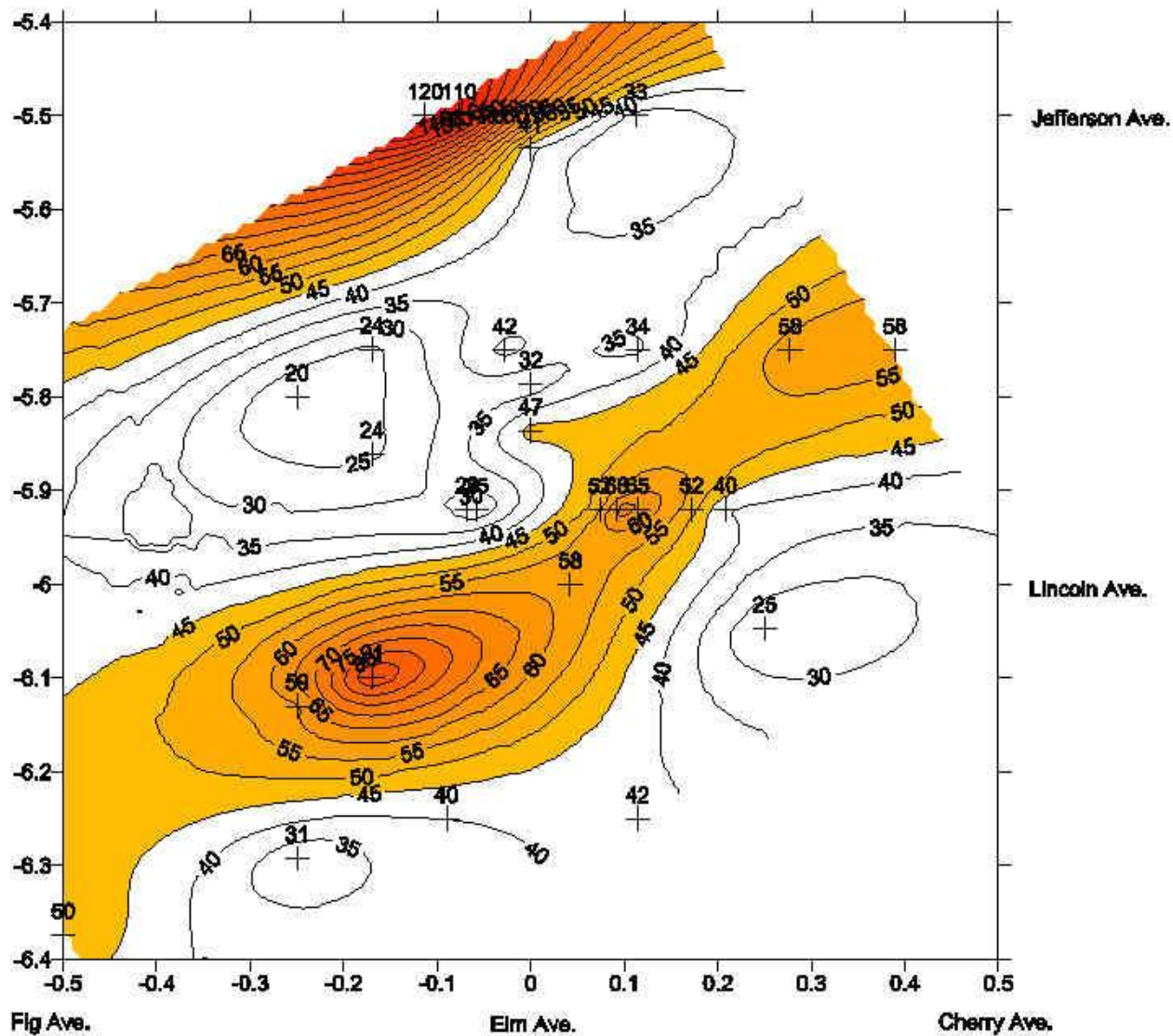


Figure 2. Relationship of Chlorides to Ancient Stream Channels and Ridges in the Vicinity of the Fresno Sewer Farm.

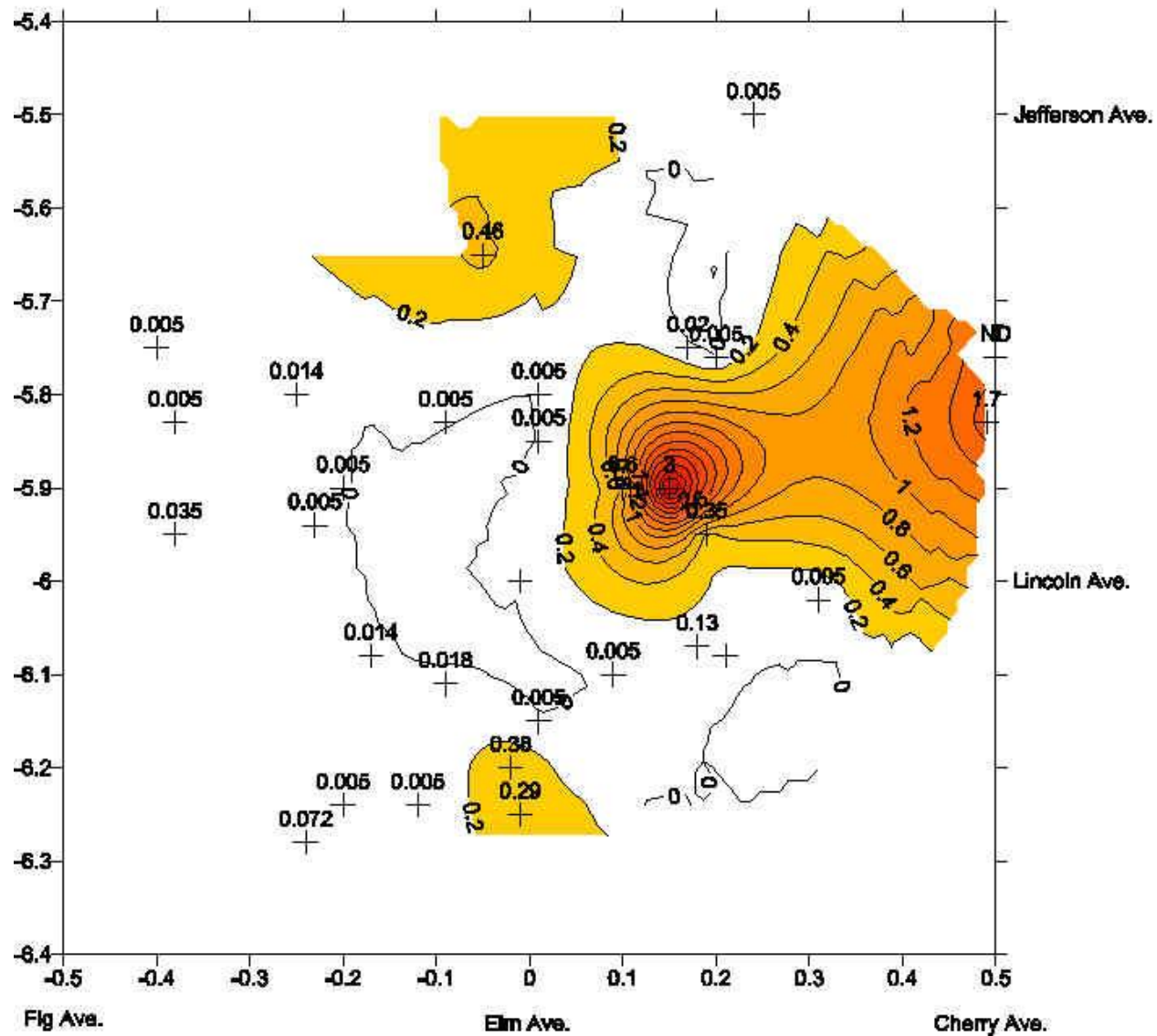
EASTON CALIFORNIA
Uranium ug/l
2012



EASTON CALIFORNIA
Nitrate mg/l
2012



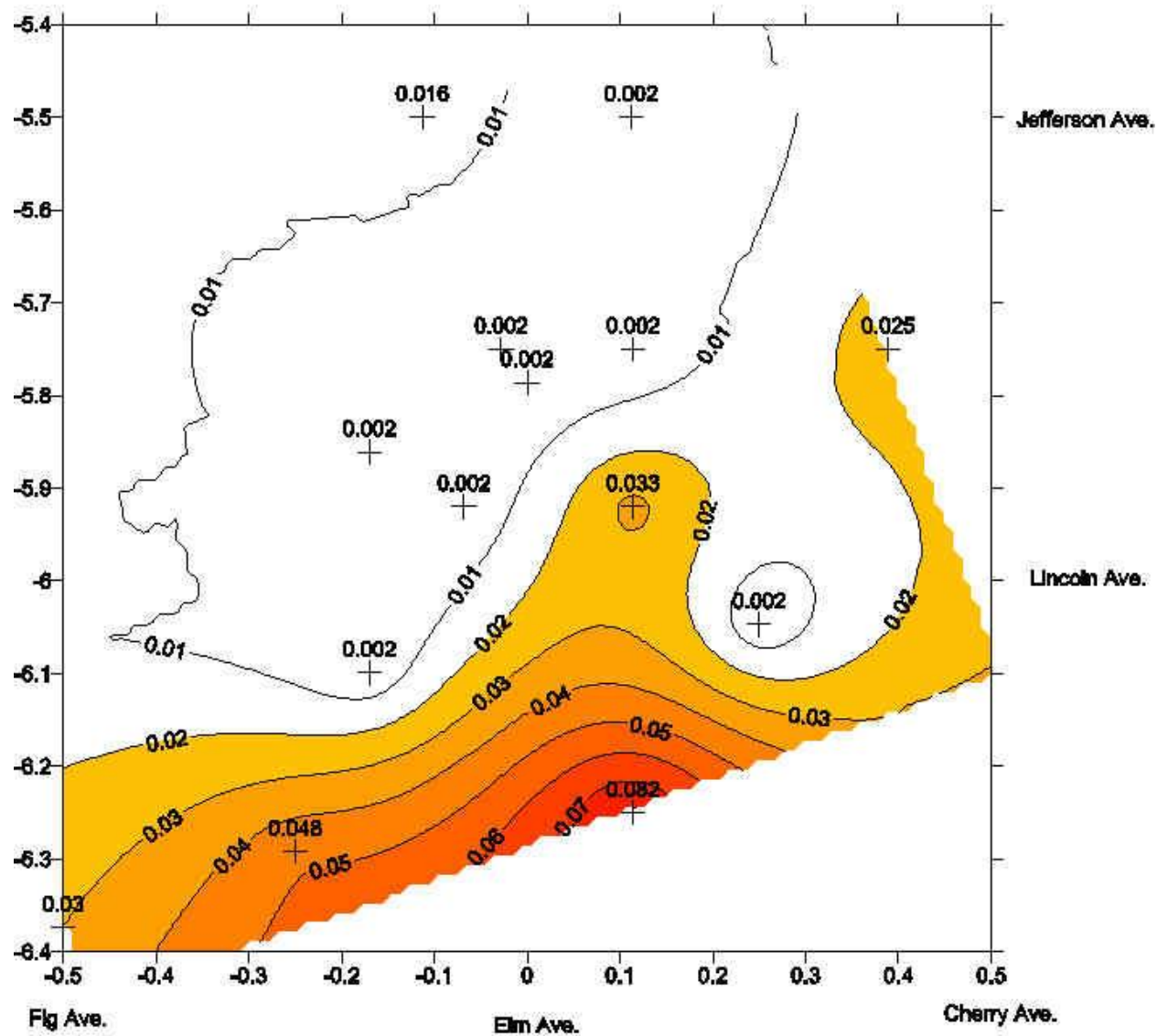
EASTON CALIFORNIA
DBCP ug/l
1997

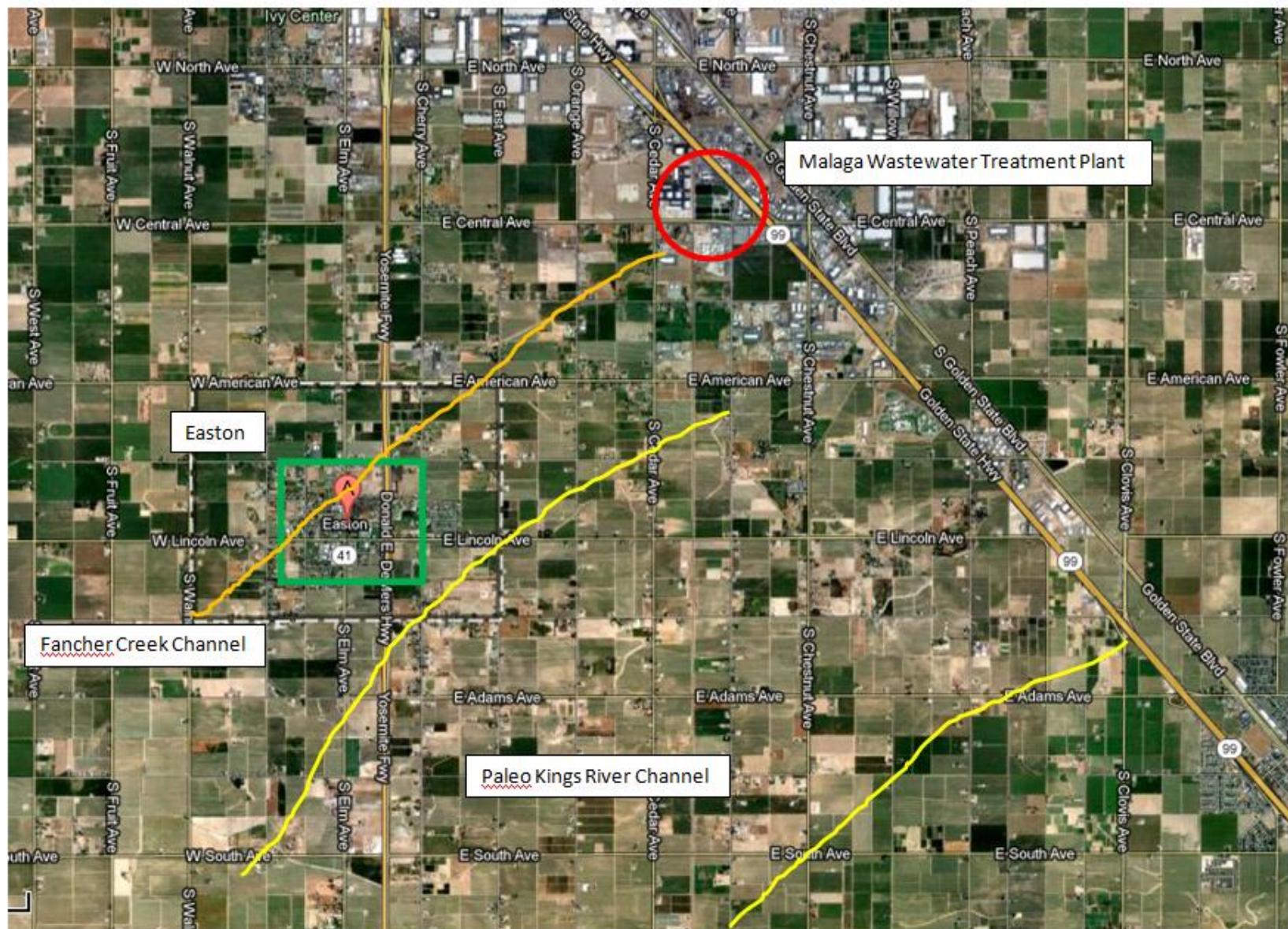


DBCP ug/l
2012



2012





Questions:

- Source of the nitrates – sewage (Easton and/or Malaga), agricultural, or soil?
- Figure out the relationship between nitrates and uranium. Are the nitrates influencing the mobilization of the uranium from the sediments?
- Why has the DBCP plume not moved beneath Easton?
- What is the source for TCP – industry along the Highway 99 corridor?
- What is the relationship between subsurface geology and the concentrations of the pollutants? Is the geology controlling groundwater flow and the pollutants there in?

